

Title (en)
Ultrasonic pulse Doppler apparatus.

Title (de)
Ultraschallimpuls-Doppler-Gerät.

Title (fr)
Appareil d'impulsion ultrasonore Doppler.

Publication
EP 0079453 A1 19830525 (EN)

Application
EP 82109070 A 19820930

Priority
JP 18038281 A 19811112

Abstract (en)
[origin: US4501277A] An ultrasonic pulse Doppler apparatus comprising an ultrasonic probe for transmitting ultrasonic beam into an object and receives the echoes from the object, a first processing circuit for processing the echoes received by the probe to form data of a B scan tomogram, a first monitor for displaying the B scan tomogram, beam mark setting circuit for setting a plurality of beam marks on the B scan tomogram, measuring point setting circuit for setting a plurality of blood flow measuring points on each of the beam marks, beam mark selecting circuit for selecting any one of the plurality of beam marks, measuring point selecting circuit for selecting any one of the plurality of blood flow measuring points on the selected beam mark, a second processing circuit for processing the echoes received by said probe to form a signal of a blood flow velocity at the selected measuring point, a second monitor for displaying the blood flow velocity at the selected measuring point, and modulating circuit for distinguishing the selected measuring point on the selected beam mark from other measuring points.

IPC 1-7
A61B 10/00; **G01S 15/00**

IPC 8 full level
A61B 8/00 (2006.01); **A61B 8/06** (2006.01); **A61B 8/14** (2006.01); **G01S 15/89** (2006.01)

CPC (source: EP US)
A61B 8/06 (2013.01 - EP US); **A61B 8/13** (2013.01 - EP US); **G01S 15/8979** (2013.01 - EP US)

Citation (search report)
• US 4141347 A 19790227 - GREEN PHILIP S, et al
• US 4217909 A 19800819 - ENGELER WILLIAM E [US], et al
• EP 0010304 A1 19800430 - TOKYO SHIBAURA ELECTRIC CO [JP]
• AU 490105 B2 19741205
• GB 1404783 A 19750903 - SIEMENS AG

Cited by
DE3512053A1; AU765304B2; EP0842638A3; EP0127157A3; EP0985380A4; EP0369353A1; US7771358B2; EP0415324A3; US5090413A; EP0190979A3; US8162837B2; US6547736B1; US6524249B2; US7128713B2; WO0027288A1; US6616611B1; US7537568B2

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DE FR GB NL

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DOCDB simple family (application)
EP 82109070 A 19820930; DE 3268975 T 19820930; JP 18038281 A 19811112; US 42613382 A 19820928